

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0844 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2019	KKBXL06.1AMD	6.124	Diesel	8000	
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	PPLICATION	
Recircula Module	Direct Injection, Turbocl ation, Charge Air Cooler, Periodic Trap Oxidizer, est, Selective Catalytic Ro Ammonia Oxidation C	, Electronic Control , Diesel Oxidation eduction – Urea,	Tractor		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER	STANDARD		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.02	0.17		0.02	0.002			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

day of December 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

EO#U-R-0>5-0844 Date: 10/29/2018

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad CI

EPA Engine Family: KKBXL06.1AMD

Mfr Family Name:

N/A

Process Code:

New Submission

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V6108-CR-TI-EV02 V6108-CR-TI-EV 168.2@2200 131.8 64.8 508.9@1200 157.0 42.1 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV03 V6108-CR-TI-EV 148.3@2200 116.7 57.4 447.7@1200 137.0 36.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV04 V6108-CR-TI-EV 141.5@2200 111.5 54.8 432.3@1500 136.0 45.6 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV05 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 41.9 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV06 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 153.0 51.3 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7	1.Engine Code	2.Engine Model	a Model 3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
V6108-CR-TI-EV03 V6108-CR-TI-EV 148.3@2200 116.7 57.4 447.7@1200 137.0 36.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC108-CR-TI-EV04 V6108-CR-TI-EV 141.5@2200 111.5 54.8 432.3@1500 136.0 45.6 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC108-CR-TI-EV05 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 41.9 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC108-CR-TI-EV06 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 153.0 51.3 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7	V6108-CR-TI-EV01	V6108-CR-TI-EV	R-TI-EV 173.0@2200	135.5	66.6	524.4@1200	162.0	43.5	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV04 V6108-CR-TI-EV 141.5@2200 111.5 54.8 432.3@1500 136.0 45.6 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV05 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 41.9 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV06 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 153.0 51.3 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EV6108-CR-TI-EV07 V6108-CR-TI-EV07 V610	V6108-CR-TI-EV02	V6108-CR-TI-EV	R-TI-EV 168.2@2200	131.8	64.8	508.9@1200	157.0	42.1	EM, DFI, TC, EGR, CAC, EGM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV05 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 41.9 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC V6108-CR-TI-EV06 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 153.0 51.3 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC V6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, EVC V6108-CR-TI-EV07 V610	V6108-CR-TI-EV03	V6108-CR-TI-EV	R-TI-EV 148.3@2200	116.7	57.4	447.7@1200	137.0	36.8	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV05 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 41.9 EM, DRI, TC, EGR, CAC, ECM, PTOX, UNDER CR-TI-EV06 V6108-CR-TI-EV07 V6108-CR-TI-EV0	V6108-CR-TI-EV04	V6108-CR-TI-EV	R-TI-EV 141.5@2200	111.5	54.8	432.3@1500	136.0	45.6	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, E	V6108-CR-TI-EV05	V6108-CR-TI-EV	R-TI-EV 131.6@2200	104.5	51.4		125.0	41.9	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
V6108-CR-TI-EV07 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8 EM, DFI, TC, EGR, CAC, ECM, PTOX, E	V6108-CR-TI-EV06	V6108-CR-TI-EV	R-TI-EV 173.0@1900	124.8	53.0	524.4@1500	153.0	51.3	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
	V6108-CR-TI-EV07	V6108-CR-TI-EV		116.7	49.6	508.2@1500	148.4	49.8	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX
	V6108-CR-TI-EV08	V6108-CR-TI-EV		105.9	45.0		129.0	43.3	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMOX